# ALUMINUM ELECTROLYTIC CAPACITORS SPECIFICATION SHEET

CUSTOMER PART No.		
Rubycon PART No.	YXF SERIES (Option code : FFC)	)
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1.Scope.

This specification covers polarized aluminum electrolytic capacitors with non-solid electrolyte for use in electronic equipments .

2. Reference Standard

JIS C 5141 (1991) and JIS C 5102 (1994) methods for testing.

3. Operating Temperature Range

-40°C to +105°C

4. Performance Refer to Table-1

5. Style and Numbering System

(1) Style CE 04 (Radial Leaded)

(2) Numbering System Rated Series Nominal Tolerance Option Lead Case size Capacitance Forming Voltage **YXF FFC** Μ

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6. Marking

Unless otherwise specified, capacitor shall be clearly marked the following items on its body.

Sleeve color: Black Lettering color: White

(1) Trade mark(2) Rated Voltage(3) Nominal Capacitance(4) Polarity

(5) Series

(6) Date code (7) Maximum Operating Tempe

(7) Maximum Operating Temperature 105°C
(8) PET Sleeve mark PET

7. Vent

On capacitors whose diameter is 6.3mm and greater, a safety vent shall be provided.

- 8. Notes on use of aluminum electrolytic capacitors
  - (1) Charge and discharge

Do not use for the circuit that repeats quick charge or discharge.

(2) External stress

Do not apply excessive force of pushing, pulling bending, and/or twisting to the main body, lead wire and terminals.

(3) Heat resistance at soldering process

In the soldering process of PC board with Capacitors mounted, secondary shrinkage or crack of sleeve may be observed when soldering temperature is too high and /or soldering time is too long.

(Negative Polarity)

If lead wire of other components or pattern of double sided PC board touches the capacitor, the similar failure may be also originated at pre-heating, heating at hardening process of adhesive and soldering process.

(4) Insulation and PC board mounting

Sleeve is for marking purpose only.

It is not recognized as insulation materials.

When double sided PC board is employed, note that it could cause a short circuit if lead wire of other components or pattern of double sided PC board touches capacitor. Please avoid circuit pattern runs underneath capacitor.

In addition, case and cathode terminal are not insulated.

(5) Adhesives and coating materials

Do not use the adhesives and coating materials that contain halogenated organic solvents or chloroprene as polymer.

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#### (6) Storage

Keep at a normal temperature and humidity. During a long storage time, leakage current will be increased. To prevent heat rise or any trouble that high leakage current possibly causes, voltage treatment is recommended for the capacitors that have been stored for a long time.

#### <Storage Condition>

- \*Āluminum electrolytic capacitors should not be stored in high temperatures or where there is a high level of humidity. The suitable storage condition is 5°C-35°C and less than 75% in relative humidity.
  - \*Aluminum electrolytic capacitors should not be stored in damp conditions such as water, saltwater spray or oil spray.
- \*Do not store alumínum electrolytic capacitors in an environment full of hazardous gas (hydrogen sulfidé, sulfurous acid gas, nitrous acid, chlorine gas, ammonia or bromine gas).
- \*Aluminum electrolytic capacitors should not be stored under exposure to ozone, ultraviolet rays or radiation.

#### (7) Fumigation and halogenated flame retardant

- It may cause corrosion of internal electrodes, aluminum cases and terminal surface when the following conditions exist.
- \*Fumigation of wooden pallets before shipment to disinfect vermin.
- \*Existence of components or parts that contain halogenated flame retardant agent (bromine etc.) together with capacitors.
- \*When halogenated detergents of antiseptics for preventing infection of epidemic diseases contact directly to capacitors.

#### (8) PC board cleaning after soldering

Please consult us when cleaning is subjected.

♦ Guide to application except the above are described in our catalog and EIAJ RCR-2367C.

EIAJ RCR-2367C: "Safety Application Guide for fixed aluminum electrolytic capacitors for use in electronic equipment." Published by Japan Electronics and Information Technology Industries Association.

#### ◆Table-1 PERFORMANCE

	ITEMS	PERFORMANCE							
1	Rated Voltage(WV) Surge Voltage (SV)	WV(V.DC) 6.3 10 16 25 35 50 63 100							
		SV(V.DC) 8 13 20 32 44 63 79 125							
2	Nominal Capacitance (Tolerance)	<criteria> 1 to 15000μF(±20%)  <condition>  Measuring Frequency : 120Hz±20%  Measuring Voltage : Not more than 0.5Vrms + 1.5 to 2.0V.DC  Measuring Temperature : 20 ± 2 °C</condition></criteria>							
3	Leakage Current	<condition>     The rated voltage shall be applied between terminals of capacitor such that the terminal voltage will reach the rated voltage within one minute and the leakage current shall be measured at 2 minutes after the voltage has reached the rated voltage across a 1000 <math>\pm</math>10 <math>\Omega</math> series protection resister. Then the current value shall not exceed value calculated from following formula. <criteria>     I=0.01CV or <math>3\mu</math>A whichever is greater where I: Leakage current in <math>\mu</math>A. C: Nominal capacitance in <math>\mu</math>F. V: Rated voltage in V.DC.</criteria></condition>							
4	Dissipation Factor	<criteria></criteria>							
	(tanδ:Tangent of loss angle)	WV(V.DC) 6.3 10 16 25 35 50 63 100							
	• ,	tanδ 0.22 0.19 0.16 0.14 0.12 0.10 0.09 0.08							
		When nominal capacitance is over $1000\mu F$ , $tan\delta$ shall be added 0.02 to the listed value with increase of every $1000\mu F$ .							
		<condition> See ITEM 2, Nominal Capacitance, for measuring frequency, voltage and temperature.</condition>							

#### Terminal Strength

<Condition>

Tensile Strength of Terminals

The body of capacitor shall be fixed and the tensile force of following table shall be applied to the terminal in lead out direction of the terminal for 10±1 seconds.

Bending Strength of Terminals

The body of capacitor shall be held in such a way that the regular lead-out axis of lead wire terminal becomes vertical. The weight of following table shall be suspended from the end of terminal. In this condition, after the body of sample is bent through 90 degrees, it shall be returned to the original position. Next the body shall be reversibly bent through 90 degrees and again returned to the original position.

Diameter of lead wire	Tensile force N{kgf}	Bending force N{kgf}
0.5mm and less	5{0.51}	2.5{0.25}
Over 0.5mm to 0.8mm incl	10{1.0}	5 {0.51}

#### <Criteria>

Notable changes shall not be found, as breakage or looseness in the terminal.

#### Temperature Coefficient and Drift

<Condition

C	Condition>						
	STEP Testing Temperature (°C)  1 20±2		Time				
			Time to reach thermal equilibrium				
	2	-40±3	//				
	3	-25±3	//				
	4	20±2	//				
	5	105±2	2 hrs.				
	6	20±2	Time to reach thermal equilibrium				

Capacitance, D.F. and Impedance shall be measured at 120Hz.

#### <Criteria>

STEP 2,3	Impedance Ratio	The value of ratio to STEP 1 not more than value of following table.
STEP 5	Capacitance Change	Within ±25% of the value of STEP 1
	Dissipation Factor	Not more than the specified value
	Leakage Current	Not more than 8 times the specified value
STEP 6	Capacitance Change	Within ±10% of the value of STEP 1
	Dissipation Factor	Not more than the specified value
	Leakage Current	Not more than the specified value

WV(V.DC)	6.3	10	16	25	35	50	63	100
Z(-25°C)/Z(+20°C)	4	3	2	2	2	2	2	2
Z(-40°C)/Z(+20°C)	8	6	4	3	3	3	3	3

	Load Life Test	Condition>     Capacitor under the test shall be applied the rated voltage continuously through protective resistor (with maximum ripple current) at 105±2°C for following test period. A returned in standard condition for 1 to 2 hours, and the capacitor shall meet following returned.					
		Case dia.	Li	fe time			
		Guoc ala.	6.3 to 10WV	16 to 100WV			
		≤φ6.3	4000 +72	5000 <sup>+72</sup> 0			
		φ8, φ10	6000 +72	7000 +72			
		φ12.5≤	8000 +72 0	10000 +72 0			
		<criteria></criteria>				7	
		Leakage Current		e than the specified		4	
		Capacitance Change		25% of the initial va	····		
		Dissipation Factor		e than 200% of the	<u>'</u>		
		Appearance	Notable	changes shall not b	e found, except sleeve		
3	Shelf Life Test	returned in standard cond any doubt arises on the j	dition for 1 to 2 he	ours and the capaci	tied for $1000^{+48}_{0}$ hours. After the tor shall meet following requirem bjected to voltage treatment spe	ents.	
1	Shell Life Test	Capacitors shall be storeturned in standard conc	dition for 1 to 2 he	ours and the capaci	tor shall meet following requirem	ents.	
3	Shell Life Test	Capacitors shall be storeturned in standard concany doubt arises on the julis C 5141,5.2.)	lition for 1 to 2 houdgment, the cap	ours and the capaci	tor shall meet following requirem bjected to voltage treatment spe	ents.	
1	Sileii Liie Test	Capacitors shall be stored in standard concany doubt arises on the just of the concant of the co	lition for 1 to 2 houdgment, the cap	ours and the capaci pacitors shall be sul	tor shall meet following requirem bjected to voltage treatment spe	ents.	
<b>3</b>	Sileii Liie Test	Capacitors shall be stored returned in standard concany doubt arises on the julis C 5141,5.2.) <criteria>  Leakage Current</criteria>	Not more t Within ±25	ours and the capaci pacitors shall be sul han the specified va	tor shall meet following requirem bjected to voltage treatment spe	ents.	
3	Sileii Liie Test	Capacitors shall be storeturned in standard concany doubt arises on the july C 5141,5.2.) <criteria>  Leakage Current  Capacitance Change</criteria>	Not more t  Not more t	ours and the capaci pacitors shall be sul han the specified va % of the initial value	tor shall meet following requirem bjected to voltage treatment spendled treatment spendled to voltage treatment spendled treatment spend	ents.	
	Surge Voltage	Capacitors shall be storeturned in standard concany doubt arises on the justice of the justice o	Not more t  Within ±25  Not more t  Notable ch  ed the surge voltary 6±0.5 minutes all be left under no	burs and the capacitors shall be sultant the specified value of the initial value of the specified shan 200% of the specified shan 200% of the specified shand at 15 to 35°C. Proceedings of the specified shall not be for	tor shall meet following requirem bjected to voltage treatment spendled treatment spendled to voltage treatment spendled treatment spend	nents.	
		Capacitors shall be storeturned in standard concany doubt arises on the justice of JIS C 5141,5.2.)  Criteria>  Leakage Current  Capacitance Change  Dissipation Factor  Appearance  Condition> Capacitor shall be applifor 30±5 seconds in every then the capacitors shall [C <sub>R</sub> : Nominal Capacital)	Not more t  Within ±25  Not more t  Notable ch  ed the surge voltary 6±0.5 minutes all be left under nance (µF)]	burs and the capacitors shall be sultant the specified value of the initial value of the specified shan 200% of the specified shan 200% of the specified shand at 15 to 35°C. Proceedings of the specified shall not be for	tor shall meet following requirem bjected to voltage treatment specialue ecified value found  250)/C <sub>R</sub> [kΩ] resistor in series seedure shall be repeated 1000 tint to 2 hours before measurement.	nents.	
		Capacitors shall be storeturned in standard concany doubt arises on the just of the just o	Not more t  Within ±25  Not more t  Notable ch  ed the surge voltary 6±0.5 minutes all be left under nance (µF)]	han the specified va % of the initial value han 200% of the sp anges shall not be f age through a (100± at 15 to 35°C. Procormal humidity for 1	tor shall meet following requirem bjected to voltage treatment specialue ecified value found  250)/C <sub>R</sub> [k\Omega] resistor in series redure shall be repeated 1000 time to 2 hours before measurement.	nents.	
		Capacitors shall be storeturned in standard concany doubt arises on the justice of JIS C 5141,5.2.)  Criteria>  Leakage Current  Capacitance Change  Dissipation Factor  Appearance  Condition> Capacitor shall be applifor 30±5 seconds in every then the capacitors shall [C <sub>R</sub> : Nominal Capacital Criteria>  Leakage Current	Not more t  Within ±25  Not more t  Notable ch  ed the surge voltary 6±0.5 minutes all be left under nance (µF)]	han the specified va % of the initial value han 200% of the sp anges shall not be f age through a (100± at 15 to 35°C. Procormal humidity for 1	tor shall meet following requirem bjected to voltage treatment specialue ecified value found  250)/C <sub>R</sub> [k\Omega] resistor in series sedure shall be repeated 1000 tinto 2 hours before measurement.	nents.	
•		Capacitors shall be storeturned in standard concany doubt arises on the justice of JIS C 5141,5.2.)  Criteria>  Leakage Current  Capacitance Change  Dissipation Factor  Appearance  Condition> Capacitor shall be applifor 30±5 seconds in every Then the capacitors shall [C <sub>R</sub> : Nominal Capacita]  Criteria>  Leakage Current  Capacitance Change	Not more t  Within ±25  Not more t  Notable ch  ed the surge voltary 6±0.5 minutes all be left under nonce (µF)]  Not more t  Within ±15  Not more t	burs and the capacitors shall be sulphan the specified value of the initial value of the spanges shall not be formal humidity for 1 than the specified value of the initial value of the initial value of the initial value of the initial value.	tor shall meet following requirem bjected to voltage treatment specialue ecified value found  250)/C <sub>R</sub> [k\O] resistor in series sedure shall be repeated 1000 tin to 2 hours before measurement.	nents.	

10	Vibration Test	<condition>     Testing shall be done out in 3 AXIS for 2 hours each (total 6 hours) as below.     Fix lead wire at a point not more than 4mm from the body , use mounting device separate one with a diameter 12.5mm and greater or with a length 25mm and longer.</condition>						
		Vibration frequency range Peak to peak amplitude Sweep rate	: 10 to 55Hz : 1.5mm : 10 to 55 to 10Hz, In about 1min.					
		Capacitance (During test)	Measured value shall be stable. (The time from one end to the other of the vibration frequency within last 30 minutes at last direction.)					
		Capacitance Change	Within ±5% of the initial value					
		Appearance	Notable changes shall not be found					
11	Solderability	for 5 to 10 seconds and sha and pulled out at the same s <criteria></criteria>	or shall be immersed in flux (ethanol solution of the rosin, 25 wt% rosin) all be immersed in the solder bath (235±5°C) and held for 2±0.5 seconds, speed.  ential surface of dipped portion of the terminal shall be covered with ne					
12	Resistance to Solder Heat	to 2.0mm from the body of c	r shall be immersed into solder bath at $260\pm5^{\circ}$ C for $10\pm1$ seconds up to 1 capacitor. be left under the normal temperature and normal humidity for 1 to 2 hou					
		<criteria></criteria>						
		Leakage Current	Not more than the specified value					
		Leakage Current Capacitance Change	Within ±10% of the initial value					
		Leakage Current	· ·					
		Leakage Current Capacitance Change	Within ±10% of the initial value					
13	Resistance to Damp Heat (Steady State)	Leakage Current Capacitance Change Dissipation Factor Appearance <condition> Capacitor shall be stored Then the capacitors shall before measurement.</condition>	Within ±10% of the initial value  Not more than the specified value					
13		Leakage Current Capacitance Change Dissipation Factor Appearance <condition> Capacitor shall be stored Then the capacitors shall before measurement.  <criteria></criteria></condition>	Within ±10% of the initial value  Not more than the specified value  Notable changes shall not be found  in the ambient of 40±2°C and relative humidity 90 to 95% for 240±8 hours be left under the normal temperature and normal humidity for 1 to 2 hou					
13		Leakage Current Capacitance Change Dissipation Factor Appearance <condition> Capacitor shall be stored Then the capacitors shall before measurement.  <criteria> Leakage Current</criteria></condition>	Within ±10% of the initial value  Not more than the specified value  Notable changes shall not be found  in the ambient of 40±2°C and relative humidity 90 to 95% for 240±8 hours be left under the normal temperature and normal humidity for 1 to 2 hou					
13		Leakage Current Capacitance Change Dissipation Factor Appearance <condition> Capacitor shall be stored Then the capacitors shall before measurement.  <criteria> Leakage Current Capacitance Change</criteria></condition>	Within ±10% of the initial value  Not more than the specified value  Notable changes shall not be found  in the ambient of 40±2°C and relative humidity 90 to 95% for 240±8 hours be left under the normal temperature and normal humidity for 1 to 2 hou  Not more than the specified value  Within ±15% of the initial value					
13		Leakage Current Capacitance Change Dissipation Factor Appearance <condition> Capacitor shall be stored Then the capacitors shall before measurement.  <criteria> Leakage Current</criteria></condition>	Within ±10% of the initial value  Not more than the specified value  Notable changes shall not be found  in the ambient of 40±2°C and relative humidity 90 to 95% for 240±8 hours be left under the normal temperature and normal humidity for 1 to 2 hou					

#### 14 Maximum Permissible Ripple Current

- (1) The maximum permissible ripple current is the maximum A.C. current at 100kHz and can be applied at maximum operating temperature.

  (2) The combined value of D.C. voltage and the peak A.C. voltage shall not exceed the rated
- voltage and shall not be reverse voltage.

#### <Frequency Coefficient>

Frequency(Hz) Capacitance(µF)	120	1k	10k	100k≤
1 to 10	0.42	0.60	0.80	1.00
22 to 33	0.55	0.75	0.90	1.00
47 to 330	0.70	0.85	0.95	1.00
470 to 1000	0.75	0.90	0.98	1.00
2200 to 15000	0.80	0.95	1.00	1.00

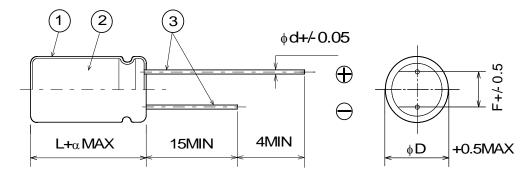
#### < Temperature Coefficient >

Ambient Temperature(°C)	105	85	65≥
Coefficient	1.0	1.7	2.1

- ◊Temperature coefficient shows a limit of ripple current exceeding the rated ripple current that can be passed through a capacitor at each temperature when the life expectancy of a capacitor becomes to be nearly equal with the lifetime at the rated maximum operating temperature.
- ◊Use of aluminum electrolytic capacitor under ripple voltage with wide amplitude is equivalent to quick charge-discharge operation.

When ripple voltage with the amplitude over 70Vp-p is expected for the products with rated voltage over 100V, please contact us.

### 9. Diagram of dimensions. :unit mm



#### ♦Table-2

V TUDIO Z							
φD	5	6.3	8	10	12.5	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
фd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
α		L≤	16 : α=1	.5 L	≥20 : α=2	2.0	

#### ♦Table-3

1 1 4 5 1 6				
1	Sleeve	P.E.T.		
2	Case	Aluminum		
3	Lead Wire	Tin plated		

◆Table-4 Standard size, Maximum permissible ripple current and Impedance

	Rated voltage 6.3V					
Nominal capacitance	Size	Ripple Current	Impedance (ΩMAX)			
(μF)	$\phi DxL(mm)$	(mA r.m.s./105°C,100kHz)	20°C,100kHz	-10°C,100kHz		
100	5X11	150	0.90	3.6		
220	6.3X11	250	0.40	1.6		
330	6.3X11	250	0.40	1.6		
470	8X11.5	400	0.25	1.0		
1000	10X12.5	580	0.16	0.65		
2200	12.5X20	1300	0.062	0.21		
3300	12.5X20	1300	0.062	0.21		
4700	16X25	1850	0.034	0.096		
6800	16X25	1850	0.034	0.096		
10000	16X31.5	2000	0.029	0.087		
15000	18X35.5	2200	0.025	0.058		

Rated voltage 10V				
Nominal capacitance	Size	Ripple Current	Impedance (ΩMAX)	
(μF)	$\phi DxL(mm)$	(mA r.m.s./105°C,100kHz)	20°C,100kHz	-10°C,100kHz
100	5X11	150	0.90	3.6
220	6.3X11	250	0.40	1.6
330	8X11.5	400	0.25	1.0
470	8X11.5	400	0.25	1.0
1000	10X16	770	0.12	0.46
2200	12.5X20	1300	0.062	0.21
3300	12.5X25	1650	0.048	0.16
4700	16X25	1850	0.034	0.096
6800	16X31.5	2000	0.029	0.087
10000	18X35.5	2200	0.025	0.058

Rated voltage 16V				
Nominal capacitance	Size	Ripple Current	Impedano	e (ΩMAX)
(μF)	φDxL(mm)	(mA r.m.s./105°C,100kHz)	20°C,100kHz	-10°C,100kHz
47	5X11	150	0.90	3.6
100	6.3X11	250	0.40	1.6
220	8X11.5	400	0.25	1.0
330	8X11.5	400	0.25	1.0
470	10X12.5	580	0.16	0.65
1000	10X20	1050	0.078	0.30
2200	12.5X25	1650	0.048	0.16
3300	16X25	1850	0.034	0.096
4700	16X31.5	2000	0.029	0.087
6800	18X35.5	2200	0.025	0.058

Rated voltage 25V					
Nominal capacitance	Size	Ripple Current	Impedance (ΩMAX)		
(μF)	φDxL(mm)	(mA r.m.s./105°C,100kHz)	20°C,100kHz	-10°C,100kHz	
33	5X11	150	0.90	3.6	
47	5X11	150	0.90	3.6	
100	6.3X11	250	0.40	1.6	
220	8X11.5	400	0.25	1.0	
330	10X12.5	580	0.16	0.65	
470	10X16	770	0.12	0.46	
1000	12.5X20	1300	0.062	0.21	
2200	16X25	1850	0.034	0.096	
3300	16X31.5	2000	0.029	0.087	
4700	18X35.5	2200	0.025	0.058	

Rated voltage 35V					
Nominal capacitance	Size	Ripple Current	Impedance (ΩMAX)		
(μF)	$\phi DxL(mm)$	(mA r.m.s./105°C,100kHz)	20°C,100kHz	-10°C,100kHz	
33	5X11	150	0.90	3.6	
47	6.3X11	250	0.40	1.6	
100	8X11.5	400	0.25	1.0	
220	10X12.5	580	0.16	0.65	
330	10X16	770	0.12	0.46	
470	10X20	1050	0.078	0.30	
1000	12.5X25	1650	0.048	0.16	
2200	16X31.5	2000	0.029	0.087	
3300	18X35.5	2200	0.025	0.058	

Rated voltage 50V					
Nominal capacitance	Size	Ripple Current	Impedance (ΩMAX)		
(μF)	φDxL(mm)	(mA r.m.s./105°C,100kHz)	20°C,100kHz	-10°C,100kHz	
1	5X11	30	4.0	8.0	
2.2	5X11	43	2.5	6.0	
3.3	5X11	53	2.2	5.6	
4.7	5X11	88	1.9	5.0	
10	5X11	100	1.5	4.0	
22	5X11	150	0.90	3.6	
33	6.3X11	250	0.40	1.6	
47	6.3X11	250	0.40	1.6	
100	8X11.5	400	0.25	1.0	
220	10X16	770	0.12	0.46	
330	10X20	1050	0.078	0.30	
470	12.5X20	1300	0.062	0.21	
1000	16X25	1850	0.034	0.096	
2200	18X35.5	2200	0.025	0.058	

Rated voltage 63V				
Nominal capacitance	Size	Ripple Current	Impedance (ΩMAX)	
(μF)	φDxL(mm)	(mA r.m.s./105°C,100kHz)	20°C,100kHz	-10°C,100kHz
10	5X11	87	2.3	9.3
22	6.3X11	140	1.3	5.2
33	6.3X11	140	1.2	5.0
47	8X11.5	210	0.63	2.8
100	10X12.5	300	0.43	1.8
220	10X20	520	0.21	0.84
330	12.5X20	660	0.16	0.64
470	12.5X25	750	0.12	0.45
1000	16X31.5	1390	0.054	0.20

Rated voltage 100V					
Nominal capacitance	Size	Ripple Current	Impedance (ΩMAX)		
(μF)	φDxL(mm)	(mA r.m.s./105°C,100kHz)	20°C,100kHz	-10°C,100kHz	
1	5X11	20	4.5	15.0	
2.2	5X11	30	3.0	13.0	
3.3	5X11	40	2.7	11.0	
4.7	5X11	65	2.5	10.0	
10	6.3X11	140	1.2	5.0	
22	8X11.5	160	0.63	2.8	
33	10X12.5	230	0.43	1.8	
47	10X16	290	0.31	1.5	
100	12.5X20	430	0.16	0.64	
220	16X25	900	0.073	0.27	
330	16X25	900	0.073	0.27	

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Aluminium Electrolytic Capacitors - Radial Leaded category:

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Other Similar products are found below:

LXY50VB4.7M-5X11 RFO-100V471MJ7P# ECE-A1EGE220 B41041A7226M8 B41044A7157M6 EKZM160ETD471MHB5D

NCD681K10KVY5PF NEV1000M25EF-BULK NEV100M35DC NEV100M63DE NEV220M25DD-BULK NEV.33M100AA

NEV4700M50HB NEV.47M100AA NEVH1.0M250AB NEVH3.3M250BB NEVH3.3M450CC KM4700/16 KME50VB100M-8X11.5

SG220M1CSA-0407 ES5107M016AE1DA ESMG160ETD102MJ16S ESX472M16B 227RZS050M 476CKH100MSA 477RZS050M

UVX1V101KPA1FA UVX1V222MHA1CA KME25VB100M-6.3X11 VTL100S10 VTL470S10 VTL470S16A 511D336M250EK5D

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NEV2.2M50AA NEV330M63EF NEV4700M35HI NEV4.7M100BA